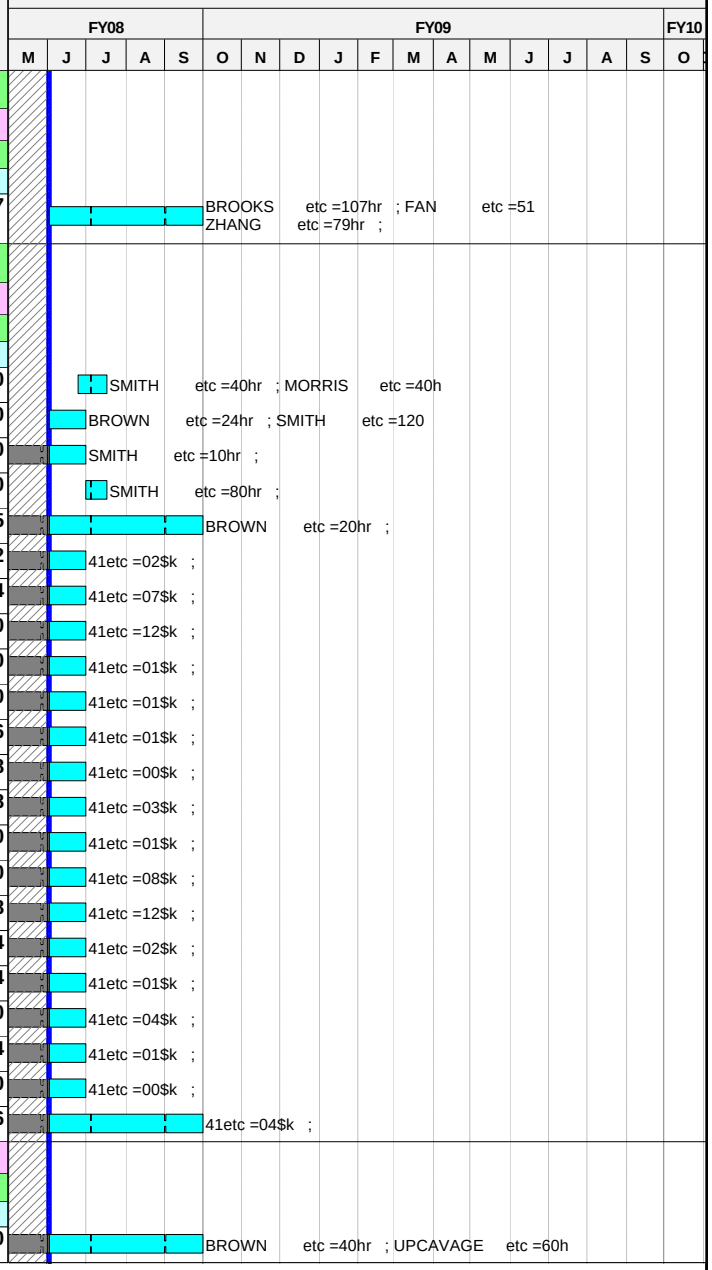
INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
Brooks								
Job: 8204 - Systems Analysis-BROOKS								
X	H	8204-FY08Z	Syst Analysis, studies & tech assurance FY08 etc	85*	02JUN08*	30SEP08	LOE	41,999.27
Brown								
Job: 1803/1805- FPA Tooling/Constr-BROWN								
Station 3-Modular Coil to VVSA Assembly								
X	D	1803S3-4	Generate laser screen trace drawings (1/2 period	15	25JUN08	16JUL08		10,688.40
X	D	1803S3-6	Station 3 simulation detail model	21	02JUN08*	30JUN08		22,704.00
X	D	1803S3-7	VV/MC clearance study (for VVSA1)	64*	01APR08A	30JUN08	75	1,537.80
X	D	1803S3-7B	VV/MC clearance study (for VVSA 2 and 3)	11	01JUL08*	16JUL08		12,302.40
X	D	1803S3-9	Oversite, cost and schedules, reviews	171*	31JAN08A	30SEP08	LOE	3,520.75
X	D	1805S3-2	Left side base grout plates	70*	24MAR08A	30JUN08	99*	2,620.62
X	D	1805S3-3	MCHP lift fixture frame weldment	70*	24MAR08A	30JUN08	99*	9,091.44
X	D	1805S3-4	Lift fixture mounting bracket weldments	70*	24MAR08A	30JUN08	99*	14,717.70
X	D	1805S3-5	Reworked laser frame structure	70*	24MAR08A	30JUN08	99*	1,117.80
X	D	1805S3-6	Right inboard laser frame structure	70*	24MAR08A	30JUN08	99*	1,055.70
X	D	1805S3-7	Left inboard laser frame structure	70*	24MAR08A	30JUN08	99*	844.56
X	D	1805S3-8	Laser screen lexan sheet (1/8 x 48" x 96")	70*	24MAR08A	30JUN08	99*	546.48
X	D	1805S3-9	Estimate for Station 2 type alignment system	70*	24MAR08A	30JUN08	99*	4,024.08
X	D	1805S3-100	Hardware & Misc items	70*	24MAR08A	30JUN08	99*	1,242.00
X	D	1805S3-110	Misc assembly Cost	70*	24MAR08A	30JUN08	99*	10,060.20
X	D	1805S3-201	MC base support system (left / rt side)	70*	24MAR08A	30JUN08	99*	15,512.58
X	D	1805S3-202	Hilman roller - 8-0T plus R & U guides	70*	24MAR08A	30JUN08	99*	2,943.54
X	D	1805S3-203	AirLoc Wedgmount Precision Levelers	70*	24MAR08A	30JUN08	99*	707.94
X	D	1805S3-204	Lift fixture mounting bracket weldments	70*	24MAR08A	30JUN08	99*	4,409.10
X	D	1805S3-205	Estimate for Station 2 type alignment system	70*	24MAR08A	30JUN08	99*	1,204.74
X	D	1805S3-206	Hardware & Misc items	70*	24MAR08A	30JUN08	99*	372.60
X	D	1805S3-207	Misc assembly Cost	171*	31JAN08A	30SEP08		5,005.26
Job: 8203 - Design Integration-BROWN								
X	H	8203FY08-4	General integration activities	170*	01FEB08A	30SEP08	LOE	13,991.20



Run Date **10JUN08 09:34**

FORECAST SCHEDULE
Progress Bar
Critical Activity

0805

NCSX Project
Closeout Plan
****PRELIMINARY****

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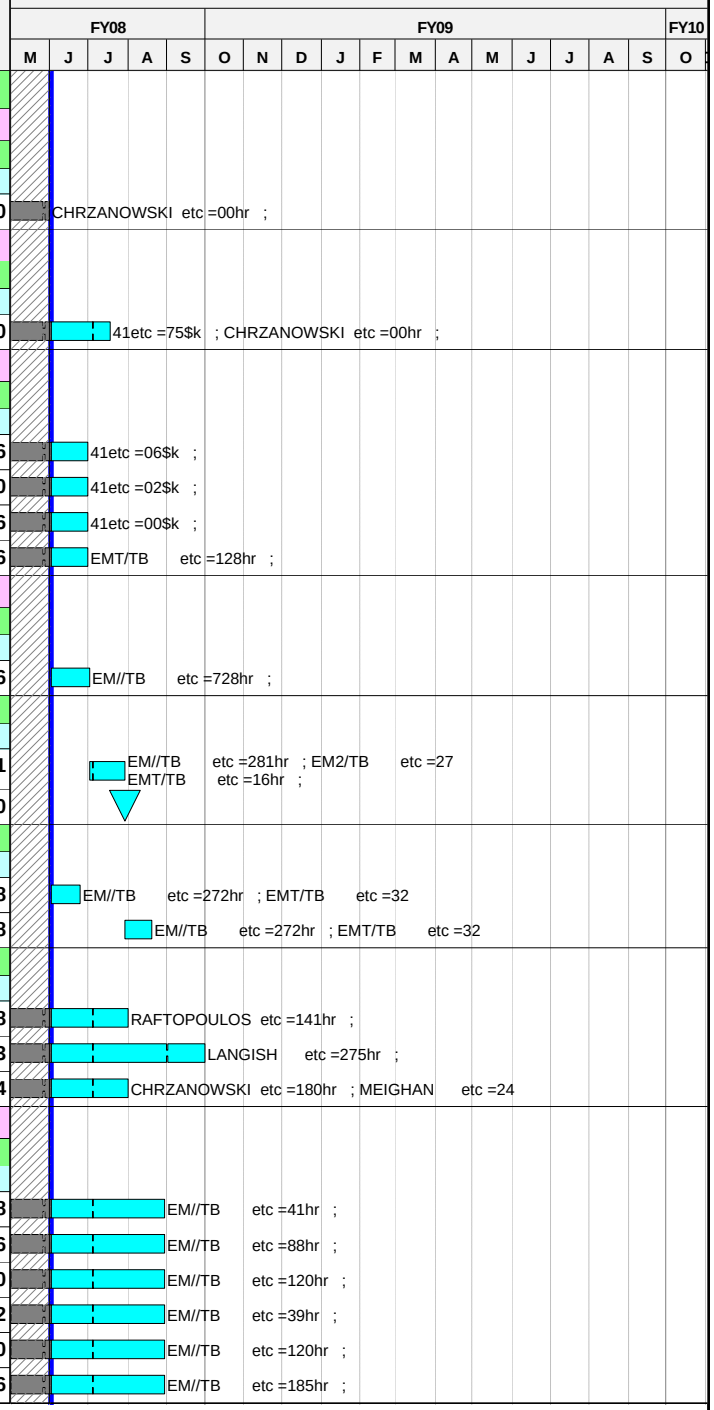
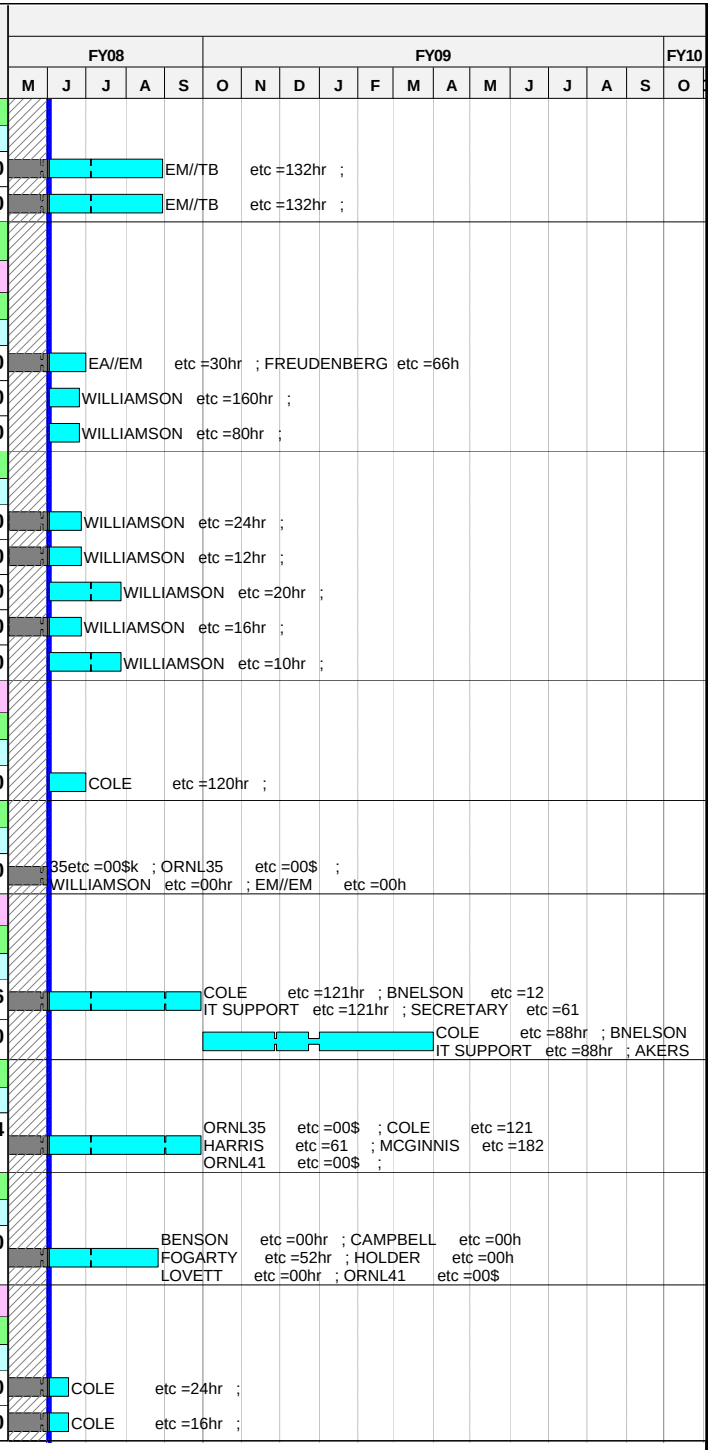
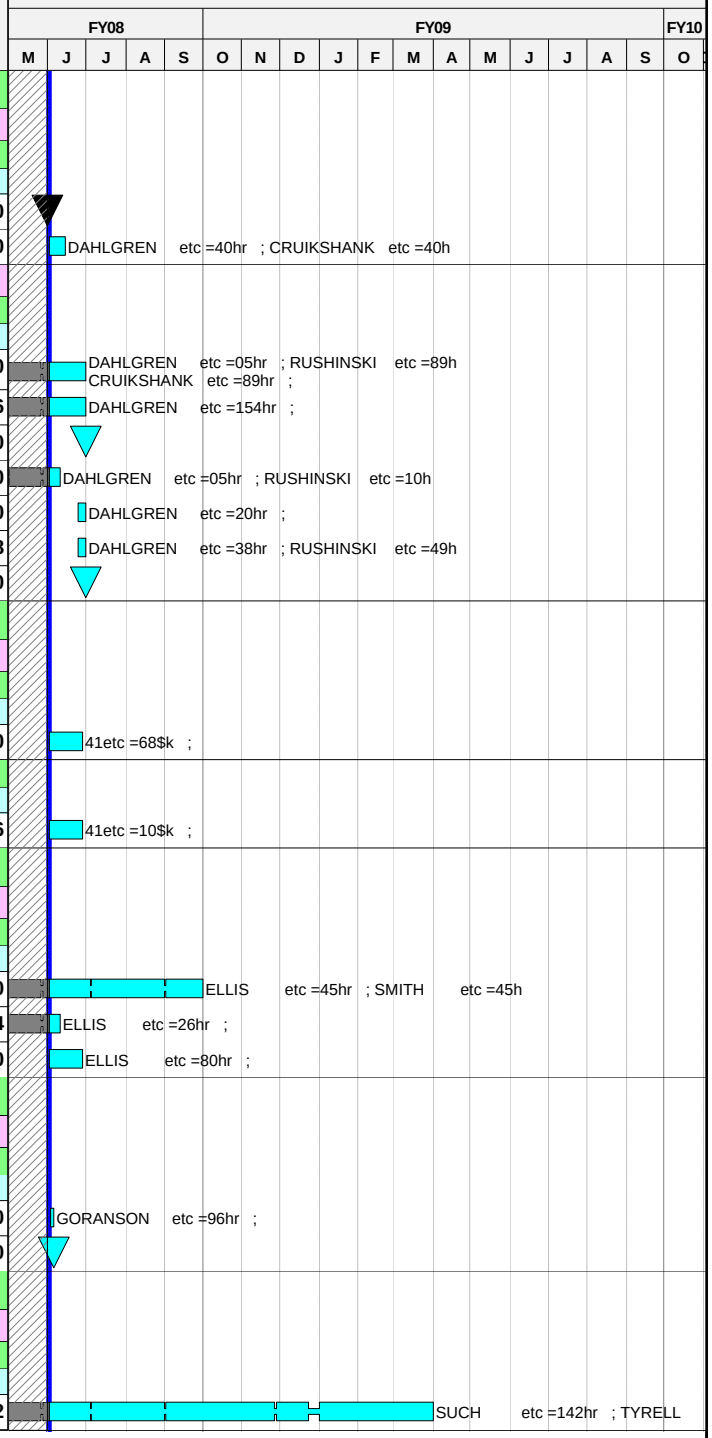
INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
Chrzanowski								
Job: 1302 - PF Design -CHRZANOWSKI								
X	H	1302-275	Resolve FDR Chits	70*	22FEB08A		90	0.00
Job: 1352 - PF Coil Procurement-CHRZANOWSKI								
PF Coil Fabrication								
X	H	141-038.1	PF Conductor cancellation cost	105*	21FEB08A	18JUL08	C	93,150.00
Job: 1408 - MC Winding Supplies-CHRZANOWSKI								
X	D	1408-3	Misc and safety supplies ($7k/mo.)	276*	23MAY07A	30JUN08	LOE	7,923.96
X	D	1408-6	VPI clean manifold contract	276*	23MAY07A	30JUN08	80	2,484.00
X	D	1408-8	Cutting hardware for flange bolts	276*	23MAY07A	30JUN08	LOE	285.66
X	D	1408-7	Misc tech shop support	276*	23MAY07A	30JUN08	80	10,108.16
Job: 1451 - Mod Coil Winding-CHRZANOWSKI								
Station 3-Casting Prep & Winding								
X	D	P1-170	Instl Chill Plates,Tubing,Bag A6	22*	02JUN08	01JUL08		57,490.16
Station 5-VPI								
X	D	P1-171V	VPI (Station 5) A6	19	02JUL08	29JUL08		47,514.31
X	D	P3-171VM	COMPLETE VPI OF 18th MOD COIL	0		29JUL08		0.00
Station 1 Post VPI								
X	D	P2-171C	Final Clamps & Warm Test (Station1) B6	16	02JUN08	23JUN08		24,006.88
X	D	P1-171C	Final Clamps & Warm Test (Station1) A6	16	30JUL08	20AUG08		24,006.88
LOE Oversight & Supervision								
X	D	145XSPRV-2	Winding Engineering oversight and supervision	314*	01MAY07A	31JUL08	LOE	24,990.58
X	D	145XSPRV-3	Winding Engineering oversight and supervision	356*	01MAY07A	30SEP08	LOE	42,266.43
X	D	145XSPRV-A	Winding Engineering oversight and supervision	185*	01NOV07A	31JUL08	LOE	63,168.64
Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI								
Punchlist Tech shop/RESA								
X	D	PLTS-C5	Grinding & Drill Holes -C5	85*	01MAY08A	29AUG08	83	3,221.98
X	D	PLTS-A5	Grinding -A5	85*	01MAY08A	29AUG08	0	6,949.36
X	D	PLTS-B5	Grinding -B5	85*	01MAY08A	29AUG08	0	9,476.40
X	D	PLTS-A6	Grinding -A6	85*	01MAY08A	29AUG08	20	3,095.62
X	D	PLTS-B6	Grinding -B6	85*	01MAY08A	29AUG08	0	9,476.40
X	D	PLTS-C6	Grinding & Drill Holes -C6	85*	01MAY08A	29AUG08	23	14,593.66



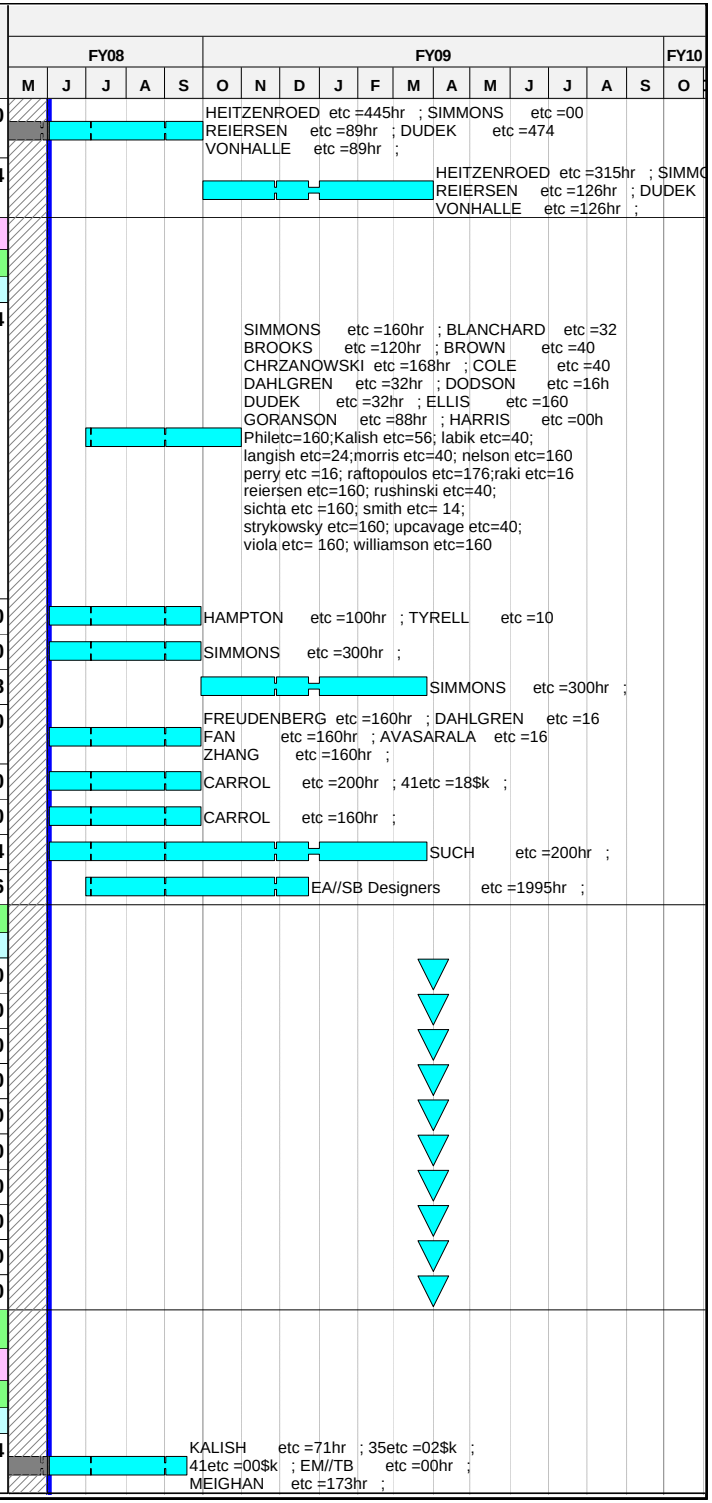
INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
Punchlist- Coil Technicians								
X	D	PLCT-A6	Insul,measure,TC,SG other punch list-A6	229*	01OCT07A	29AUG08	36	10,411.40
X	D	PLCT-B6	Insul,measure,TC,SG other punch list-B6	229*	01OCT07A	29AUG08	36	10,411.40
Cole								
Job: 1416 - Mod Coil Type AB Fnl Dsn-COLE								
Analysis and closeout documentation								
X	H	1416-601	Prepare EM and structural analysis of leads	107*	31JAN08A	30JUN08	70	15,279.00
X	H	1416-650	Prepare cooling analysis of lead area	18	02JUN08*	25JUN08		24,160.00
X	H	1416-651	Prepare cooling analysis coefficient for cryosta	18	02JUN08*	25JUN08		12,080.00
ECN Modifications								
X	H	1416-801	ECN Mods-Resize vertical port boot	40*	01MAY08A	26JUN08	40	3,624.00
X	H	1416-802	ECN Mods-Revise Type B cooling lines	40*	01MAY08A	26JUN08	40	1,812.00
X	H	1416-803	ECN Mods-Issue DXF shim files for fab	40	02JUN08*	28JUL08		3,020.00
X	H	1416-805	ECN Mods-Add TC's at bottom of 101,102,103 dwgs	40*	01MAY08A	26JUN08	80	2,416.00
X	H	1416-806	ECN Mods-Revise dwg 123-151	40	02JUN08*	28JUL08		1,510.00
Job: 1421 - Mod Coil Interface Design-COLE								
Inboard Interface-CC								
X	H	1421-3155	Resolve C-C shim FDR comments	21	02JUN08*	30JUN08		18,120.00
X	H	INTRF-100	Misc travel, meetings,reporting,job 1416&1421	271*	01MAY07A		LOE	0.00
Job: 1901 - Stellarator Core Mngtt&Integr-COLE								
191 - Stellarator Core Management & Oversight								
X	H	1901-08	WBS 191 FY08	249*	01OCT07A	29SEP08	LOE	61,023.96
X	H	1901-09	WBS 191 FY09	121*	01OCT08*	31MAR09	LOE	46,385.40
192 - Stellarator Core Integr & Global Analysis								
X	H	1902-08	WBS 192 FY08	249*	01OCT07A	29SEP08	LOE	50,185.84
193 - Risk Mitigation Tasks								
X	H	RISK-43	Bolt preload could relax with time.	61	03MAR08A	26AUG08	10	7,852.00
Job: 1806 - FP Assembly specs and drawings-COLE								
Station 3-Modular Coil to VVSA Assembly								
X	H	1803-301	Station 3 Assembly Specification	239*	02JUL07A	16JUN08	90	3,624.00
X	H	1803-305	Station 3 Assembly Drawings	239*	02JUL07A	16JUN08	90	2,416.00



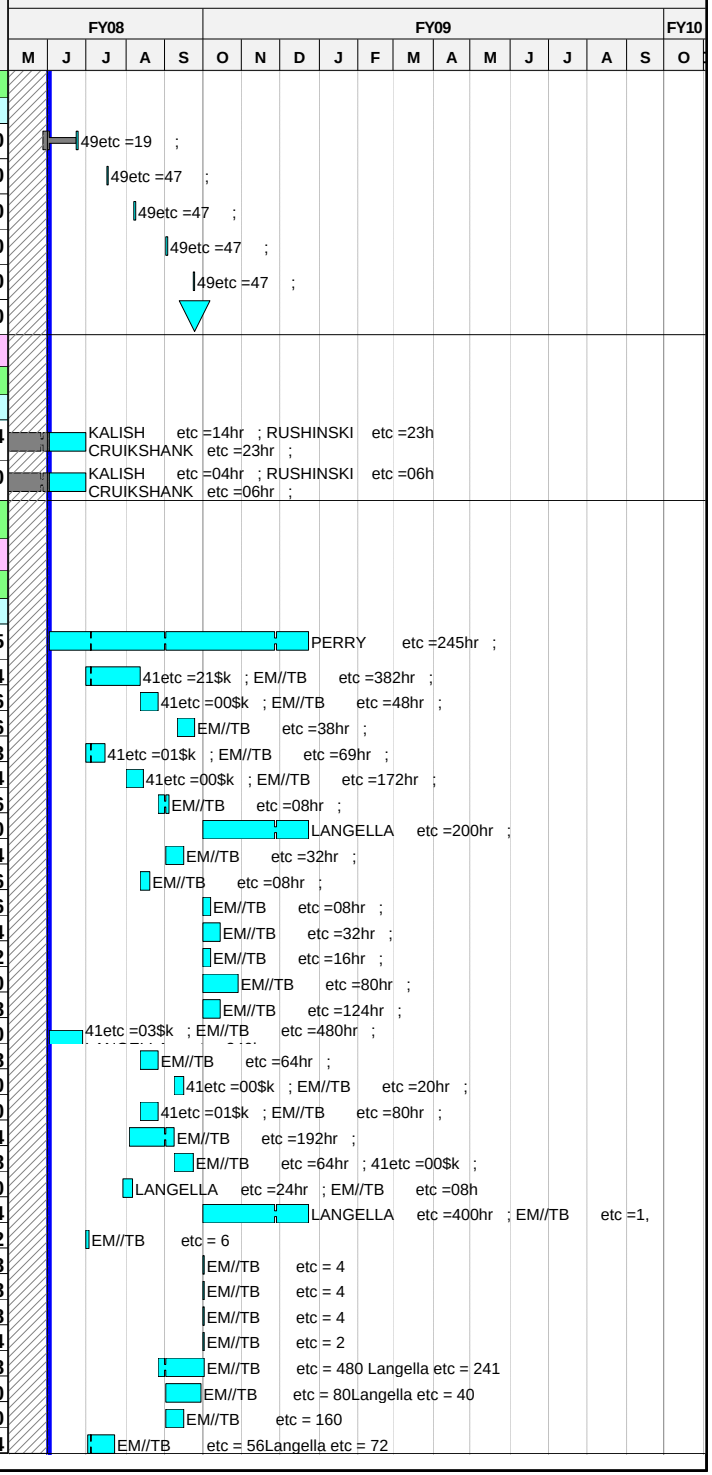
INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
Dahlgren								
Job: 1702 - Base Support Struct Design-DAHLGREN								
X	H	1702-525M	Base Support Structure FDR	0		30MAY08A	100	0.00
X	H	1702-530	FDR labor cost (accounting lag)	10	02JUN08	13JUN08		11,688.80
Job: 1501 - Coil Structures Design-DAHLGREN								
X	H	1501-533	Detail CAD Drawings,BOM	270*	01JUN07A	30JUN08	75	21,319.30
X	H	1501-533F	Integrated Stress Analysis	186*	01OCT07A	30JUN08	75	27,202.56
X	H	1501-536	Issue dwgs for review	0		30JUN08*		0.00
X	H	1501-549	Update C.S.Support Attacgment Design	27*	01MAY08A	09JUN08	75	2,036.70
X	H	1501-562	Prepare Specs for Coil Structure & CSS h/w	5	24JUN08	30JUN08		3,542.00
X	H	1501-537	FDR Prep	5	24JUN08	30JUN08		12,370.68
X	H	1501-541	Coil Support Structures - FDR	0		30JUN08		0.00
Dudek								
Job: 1431 - Mod. Coil Interface Hardware-DUDEK								
Shims-Outboard								
X	D	1431-100	Complete PE007965 & 8090 with zenex	20	02JUN08	27JUN08		84,331.80
Shims-Inboard								
X	D	1431-110	Complete PE007677 with white engr	20	02JUN08	27JUN08		12,705.66
Ellis								
Job: 8205 - Dimensional Control Coordin-ELLIS								
Station 3-Modular Coil to VVSA Assembly								
X	H	METFY08R	Support FPA Station 2	170*	01FEB08A	30SEP08	LOE	14,889.60
X	H	METDCP-3	Dimensional control plans for station 3	92*	01FEB08A	10JUN08	67	4,675.44
X	H	STAT3 PREP	Station 3 preparations	20	02JUN08	27JUN08		14,168.00
Goranson								
Job: 1601 - Coil Services Design-GORANSON								
161 - LN2 Distribution								
X	H	191-002	Coil Serv-LN2 manifolds&piping-PDR prep etc	3*	03JUN08	05JUN08		14,496.00
X	H	162-217	PDR	0		05JUN08		0.00
Heitzenroder								
Job: 8202 - Engr Mgmt & Sys Eng Sprt-HEITZENROED								
X	H	8205DC	document control & admin support	291*	01FEB08A	31MAR09	LOE	23,630.52



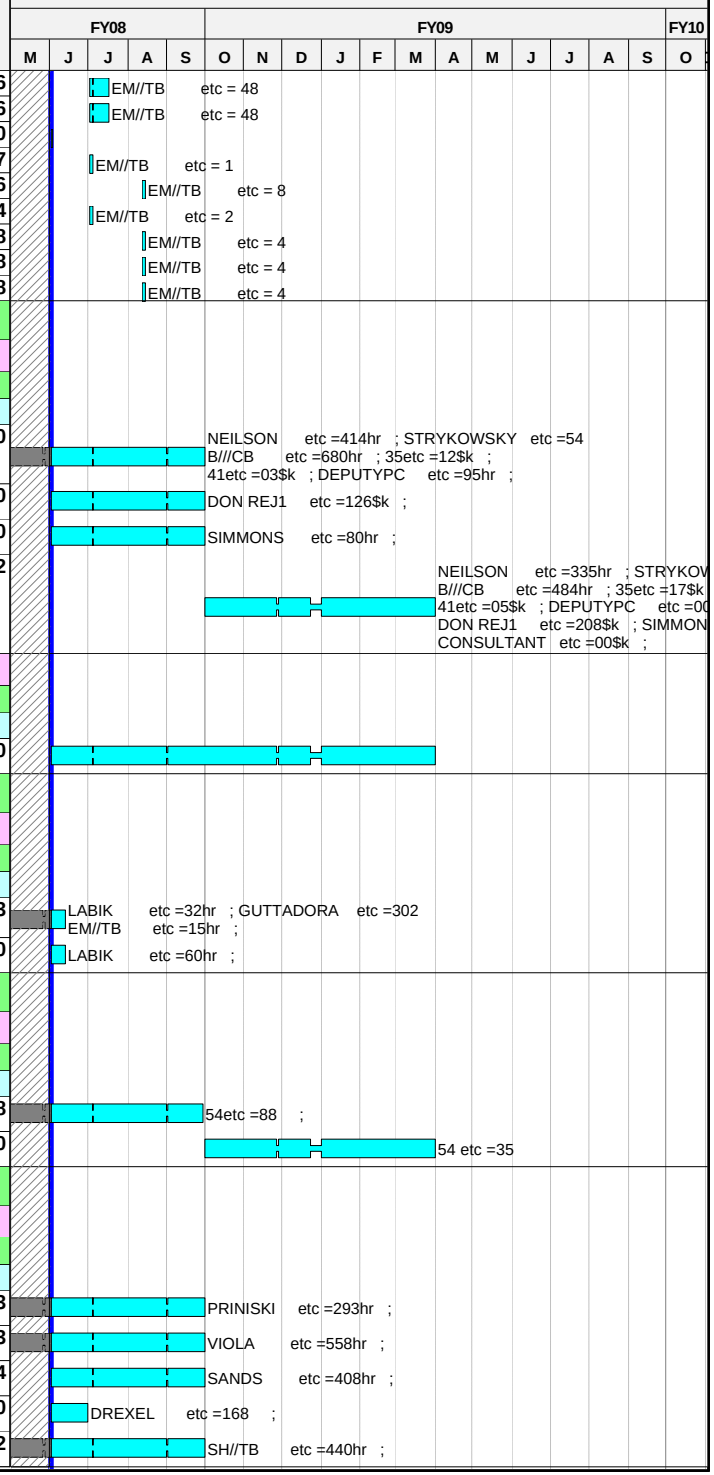
INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
X	H	8205FY08.2	Engr mgt & systems engr FY08	170*	01FEB08A	30SEP08	LOE	181,477.20
X	H	8205FY09	Engr mgt & systems engr FY09	121*	01OCT08*	31MAR09	LOE	157,899.44
Job: 8221 -Documentation Closeout-HEITZENROEDER								
Closeout Documentation								
X	H	8221-100	Technical data collection	87	01JUL08*	31OCT08		526,139.34
X	H	8221-251	Tech presentation/paper collection	84	02JUN08	29SEP08		9,902.00
X	H	8221-301	Guidance to collect data	84	02JUN08	29SEP08		53,130.00
X	H	8221-305	Organizing and posting data	120	30SEP08	27MAR09		56,203.18
X	H	8221-401	Finalizing and archiving key analyses/reports	84	02JUN08	29SEP08		137,504.00
X	H	8221-501	dell server, software, setup (non project cost	84	02JUN08	29SEP08		0.00
X	H	8221-555	Comp. div support of web (non project cost)	84	02JUN08	29SEP08		0.00
X	H	8221-575	Archiving doc & files in ops center	203	02JUN08	26MAR09		18,009.74
X	H	8221-700	As-built Drawing Updates	122*	01JUL08*	23DEC08		232,562.06
Prepare Closeout report								
X	H	8221-601	Lessons learned report	0		31MAR09		0.00
X	H	8221-605	Closeout report-Adjustments to obligations/costs	0		31MAR09		0.00
X	H	8221-609	Closeout report-Baseline change control log	0		31MAR09		0.00
X	H	8221-613	Closeout report-Closeout approvals	0		31MAR09		0.00
X	H	8221-617	Closeout report-Contract closeout status	0		31MAR09		0.00
X	H	8221-621	Closeout report-D&D planning	0		31MAR09		0.00
X	H	8221-625	Closeout report-Final cost report, incl claims	0		31MAR09		0.00
X	H	8221-629	Closeout report-Photographic documentation	0		31MAR09		0.00
X	H	8221-633	Closeout report-Tech, cope,cost,schedule accompl	0		31MAR09		0.00
X	H	8221-900	CLOSEOUT BCP	0		31MAR09*		0.00
Kalish								
Job: 1361 - TF Fabrication-KALISH								
TF Title III and Fabrication Oversight								
X	H	131-033C	Title III engr,inspection, support	184*	02JAN08A	18SEP08	LOE	37,543.84



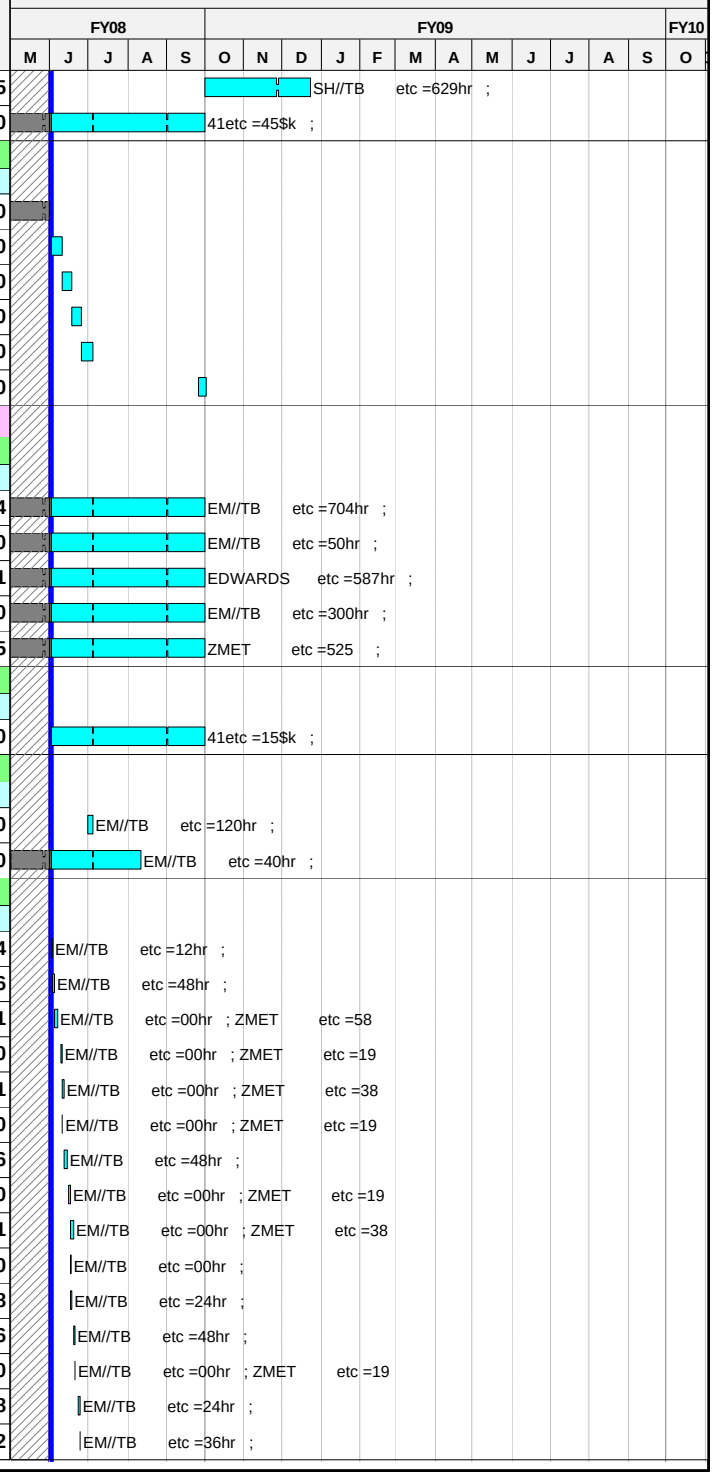
INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
TF Fabrication Contract								
X	H	1361C-114	Fab, Test & Deliver Coil #14	21*	27MAY08A	24JUN08	61	18,550.00
X	H	1361C-115	Fab, Test & Deliver Coil #15	1	17JUL08*	17JUL08		47,220.00
X	H	1361C-116	Fab, Test & Deliver Coil #16	1	08AUG08*	08AUG08		47,220.00
X	H	1361C-117	Fab, Test & Deliver Coil #17	1	02SEP08*	02SEP08		47,220.00
X	H	1361C-118	Fab, Test & Deliver Coil #18	1	24SEP08*	24SEP08		47,220.00
X	H	1351-195X	ALL TF COILS DELIVERED	0		24SEP08		0.00
Job: 1354 - Trim Coil Design &Procurement-KALISH								
Trim Coil **Updated estimate**								
X	H	TRIM-170	Complete Trim Coil Detailed Drawings	69*	25MAR08A	30JUN08	80	7,658.04
X	H	TRIM-200	Assy drawings & parts list	64*	01APR08A	30JUN08	90	2,019.00
Perry								
Job: 8220 - Equipt Save & Facility Restora-PERRY								
Safe and store NCSX hardware assets								
X	D	8220-201	Coordination and oversight	143	02JUN08	23DEC08		38,567.45
X	D	8220-205	NCTC floor penetrations & PLT water htr removal	30	01JUL08*	12AUG08		56,248.54
X	D	8220-209	Secure platform parts from CAS Bldg to NCTC	10	13AUG08	26AUG08		4,163.16
X	D	8220-215	Secure TF Coils from Dsite MG to NCTC	10	11SEP08	24SEP08		3,000.86
X	D	8220-219	Electr trays & hw from D-site yard to dsite pad	10	01JUL08*	15JUL08		6,194.13
X	D	8220-223	Items f/TFTR bsmnt (incl spare MC cond) to NCTCB	10	01AUG08*	14AUG08		13,831.24
X	D	8220-227	Portable AC units to Csite crib	5	27AUG08	03SEP08		631.76
X	D	8220-231	Drawing closeouts and field follow-up	58	01OCT08*	23DEC08		27,614.00
X	D	8220-235	Large and Small shield block to Dsite pad	10	02SEP08*	15SEP08		2,527.04
X	D	8220-239	Machine mock-up to NCTC	5	13AUG08	19AUG08		631.76
X	D	8220-243	Welding machines to RESA	5	01OCT08*	07OCT08		668.56
X	D	8220-247	Tools to Csite crib	10	01OCT08*	14OCT08		2,674.24
X	D	8220-251	Measuring Equipment to S-109	5	01OCT08*	07OCT08		1,337.12
X	D	8220-255	Inventory parts,material, tools to new location	20	01OCT08*	28OCT08		6,685.60
X	D	8220-409	Crates,cabinets,parts shelves f/TFTRTC to NCTCB	10	01OCT08*	14OCT08		10,362.68
X	D	R1810-3109	Remove coil winding stations & enclosures	20	02JUN08*	27JUN08		72,942.00
X	D	8220-415	Coil winding station to NCTC	10	13AUG08	26AUG08		5,054.08
X	D	8220-419	MC bolts (incl crate) to NCTCB	5	09SEP08	15SEP08		2,076.20
X	D	8220-423	VVSA's (incl port extension crates) to NCTC	10	13AUG08	26AUG08		7,808.00
X	D	8220-427	Assemble 4 remaining MC 3 packs	25	04AUG08	08SEP08		15,162.24
X	D	8220-431	Transport MC 3 packs (6) to NCTC	10	09SEP08	22SEP08		5,302.48
X	D	8220-501	Autocalve- Safe all AC power	5	30JUL08	05AUG08		3,762.80
X	D	8220-505	Autoclave-Removal and store Dsite pad & NCTCB	58	01OCT08*	23DEC08		154,843.44
X	D	8220-605	VV Spool piece crates to NCTCB	2	01JUL08*	02JUL08		473.82
X	D	8220-609	Yellow wedge stands to NCTC	2	01OCT08*	02OCT08		334.28
X	D	8220-613	Wedge cover plates to NCTC	2	01OCT08*	02OCT08		334.28
X	D	8220-617	5 ton lift beam to RESA	2	01OCT08*	02OCT08		334.28
X	D	8220-621	14 ton lift beam to RESA	2	01OCT08*	02OCT08		167.14
X	D	8220-625	Remove coil winding rooms & dispose	25	27AUG08	01OCT08		69,377.38
X	D	8220-633	Equipment in MU machine shop-Electrical to RESA	20	02SEP08*	29SEP08		11,536.00
X	D	8220-641	Equipment in MU machine shop-Mechanical to RESA	10	02SEP08*	15SEP08		12,635.20
X	D	8220-645	Cryo pump skid- Electrical to NCTCB	15	02JUL08*	23JUL08		13,815.44



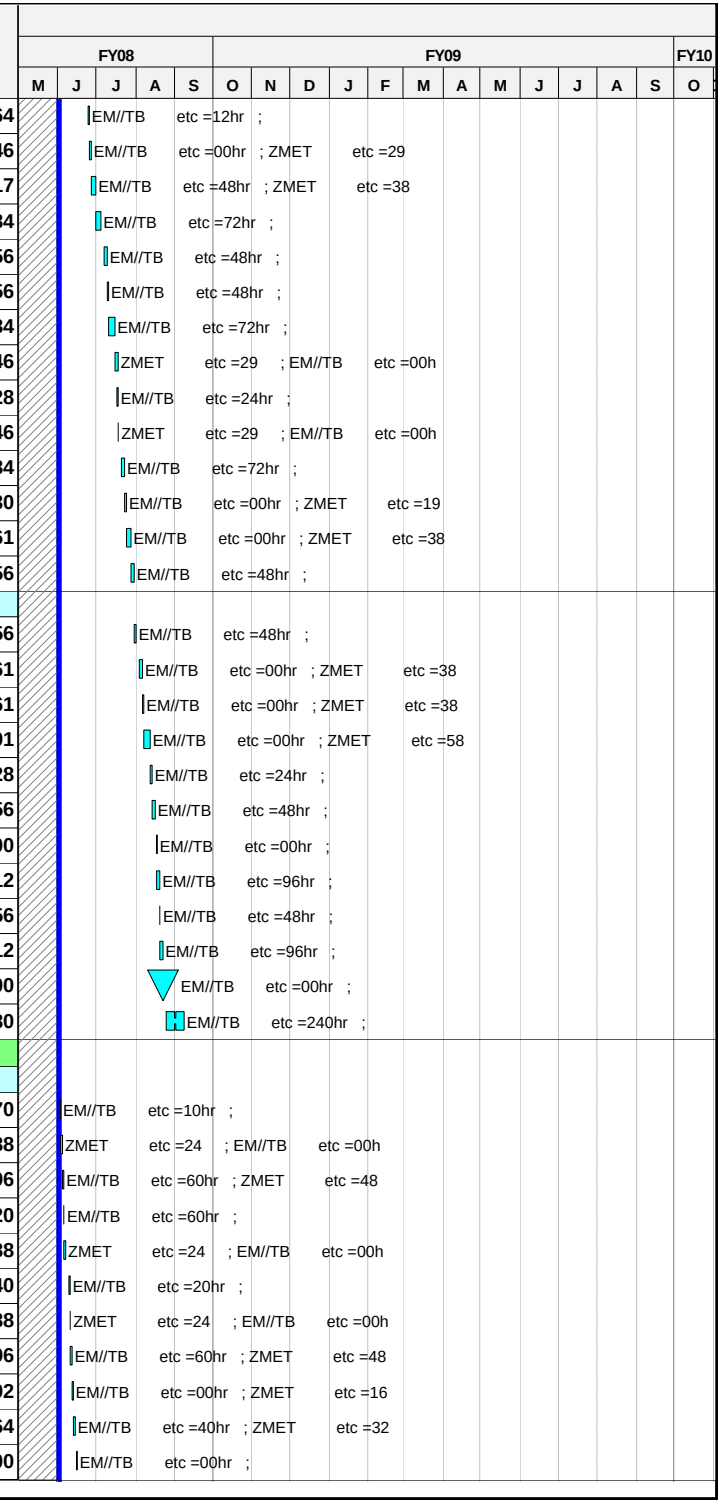
INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
X	D	8220-653	Cryo pump skid- Mechanical to NCTCB	10	02JUL08*	16JUL08		3,790.56
X	D	8220-657	Cryostat-dispose	10	02JUL08*	16JUL08		3,790.56
X	D	8220-661	Interlocked cryo room-leave in place	1	02JUN08*	02JUN08		0.00
X	D	8220-665	Spherical bearings (Dahlgren) to NCTCB	2	02JUL08*	03JUL08		78.97
X	D	8220-669	Prototype castings to NCTC	2	13AUG08	14AUG08		631.76
X	D	8220-673	Prototype VV cross sections-Scrap	2	02JUL08*	03JUL08		157.94
X	D	8220-677	TF coil fabrication fixtures to NCTC-VPI fixture	2	13AUG08	14AUG08		315.88
X	D	8220-681	TF coil fabrication fixtures to NCTC-Mandrel	2	13AUG08	14AUG08		315.88
X	D	8220-685	TF coil fabrication fixtures to NCTC-Misc fixtur	2	13AUG08	14AUG08		315.88
Don Rej								
Job: 8101 - Project Management &Control-REJ								
X	R	810.900	Project Management Office PPPL FY08 (LOE)	250*	01OCT07A	30SEP08	LOE	216,292.20
X	R	810.9005A	Project Management Office PPPL fy08 etc	85*	02JUN08	30SEP08	LOE	125,600.00
X	R	810.9007	Project controls support (simmons(	85*	02JUN08*	30SEP08	LOE	14,168.00
X	R	810.901	Project Management Office PPPL FY09 (SA LOE)	121*	01OCT08*	31MAR09	LOE	399,185.02
Contingency-Project								
Y								
X	R	CC	Closeout contingency @ 20%	206*	02JUN08*	31MAR09		1,188,000.00
Stratton								
Job: 3101 - Magnetic Diagnostics-STRATTON								
Rogowski Coils								
X	D	3101-359	Install Rogowski coils support (in job 1815)	51*	02APR08A	12JUN08	30	45,456.03
X	D	3101-360	Title III support	9*	02JUN08*	12JUN08	LOE	9,226.80
Strykowsky								
Job: 8998 - Allocations-STRYKOWSKY								
X	R	99.08	PPPL Allocations FY08 LOE	249*	01OCT07A	29SEP08	LOE	142,323.48
X	R	99.09C	PPPL Allocations FY09 LOE	121*	01OCT08*	31MAR09	LOE	59,465.00
Viola								
Job: 1802 - FP Assy Oversight&Support-VIOLA								
Oversight and Supervision								
X	D	R1802-003	Metrology Engr Super FY08	250*	01OCT07A	30SEP08	LOE	45,122.13
X	D	R1802-007	FPA Management FY08	250*	01OCT07A	30SEP08	LOE	85,747.73
X	D	R1802-009	PU Title III support	85*	02JUN08	30SEP08	LOE	62,742.24
X	D	R1802-010	Drexel co-op student support	21*	02JUN08	30JUN08	LOE	2,520.00
X	D	R1802-015	HP Coverage in the TFTR TC LOE FY08	250*	01OCT07A	30SEP08	LOE	53,157.42



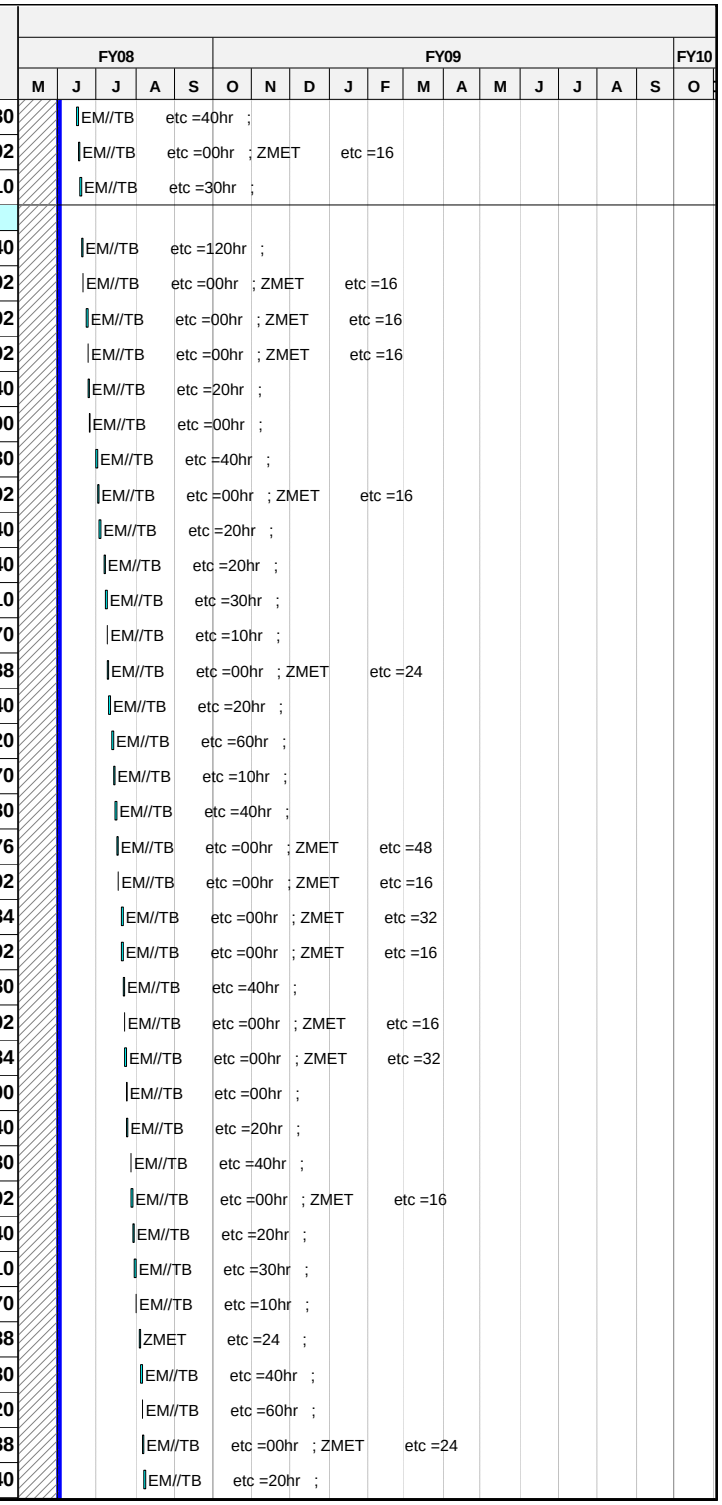
INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
X	D	R1802-016	HP Coverage in the TFTR TC LOE FY09	58*	01OCT08*	23DEC08	LOE	36,276.45
X	D	1802MISC	Misc materials,tools, GSA vehicle,rigging	170*	01FEB08A	30SEP08	LOE	55,890.00
Station 3 procedures,JHA,ACC,Training,Prep								
X	D	R1802-307	Procedures written & approved	34*	14APR08A			0.00
X	D	R1802-309	JHA completed	6	02JUN08	09JUN08		0.00
X	D	R1802-311	Training needs identified & released	6	10JUN08	17JUN08		0.00
X	D	R1802-313	ACC review completed	6	18JUN08	25JUN08		0.00
X	D	R1802-315	Pre-job brief completed	6	26JUN08	03JUL08		0.00
X	D	R1802-320	Update FPA cost estimate for FPA station 2&3	5	26SEP08	02OCT08		0.00
Job: 1810 - Field Period AssyStation 1,2,3 VIOLA								
General Assy Support								
X	D	R1810-003	LOE Crane support, fixture setupfor FY08	250*	01OCT07A	30SEP08	LOE	55,605.94
X	D	R1810-025	Crane & Rigging inspections	170*	01FEB08A	30SEP08	LOE	3,948.50
X	D	R1810-007	LOE Field Supervision for FY08	250*	01OCT07A	30SEP08	LOE	79,035.61
X	D	R1810-2001	Misc Hardware and hardware rework (1/2 fte loe)	170*	01FEB08A	30SEP08	LOE	23,691.00
X	D	S21-4.02	Perform routine metrology set-up and checks (loe	170*	01FEB08A	30SEP08	LOE	61,094.25
Setup								
X	D	R1810-2034	Misc Tool and Hardware	85*	02JUN08	30SEP08	LOE	18,630.00
Pre-Measuring and fitup checks								
Pre measurement of MCHP A2,B2,C2 flanges								
X	D	2-2-2.99	Drill Stycast fill holes C2	3	01JUL08*	03JUL08		9,476.40
X	D	S22-3.02	Compress shims sort by thickness	71*	01MAY08A	11AUG08	50	3,158.80
Station 2 MC subassy A1B1C1								
AB-C MC Assembly								
X	D	2-1-7.16	"Lightly" tack weld nose flex shims	1	02JUN08*	02JUN08		947.64
X	D	2-1-7.17	remove "C" coil & place it on a separate fixtur	1	03JUN08	03JUN08		3,790.56
X	D	2-1-7.18	Recheck part alignment & weld all Type-B flex s	3	04JUN08	06JUN08		6,702.91
X	D	2-1-7.19	After welding "B" coil nose shims recheck align	1	09JUN08	09JUN08		2,234.30
X	D	2-1-7.20	Back office assessment of part after weld	2	10JUN08	11JUN08		4,468.61
X	D	2-1-7.21	Measure "C" fiducials	1	10JUN08	10JUN08		2,234.30
X	D	2-1-7.22	Weld all Type-C (A-flange) flex shims plasma sid	2	12JUN08	13JUN08		3,790.56
X	D	2-1-7.23	After welding determine metrology acceptance	1	16JUN08	16JUN08		2,234.30
X	D	2-1-7.24	Back office assessment	2	17JUN08	18JUN08		4,468.61
X	D	2-1-7.25	Remove shims for alignment mating coil	0	17JUN08	16JUN08		0.00
X	D	2-1-7.07	Place unfilled shim bags in wing areas	1	17JUN08	17JUN08		1,895.28
X	D	2-1-7.26	Lower mating “C” coil into position.	1	19JUN08	19JUN08		3,790.56
X	D	2-1-7.261	alignment “C” coil tooling balls	1	20JUN08	20JUN08		2,234.30
X	D	2-1-7.27	position coil accurately in x, y, & z directio	1	23JUN08	23JUN08		1,895.28
X	D	2-1-7.28	Install shims;studs,, & "wiggle"	1	24JUN08	24JUN08		2,842.92



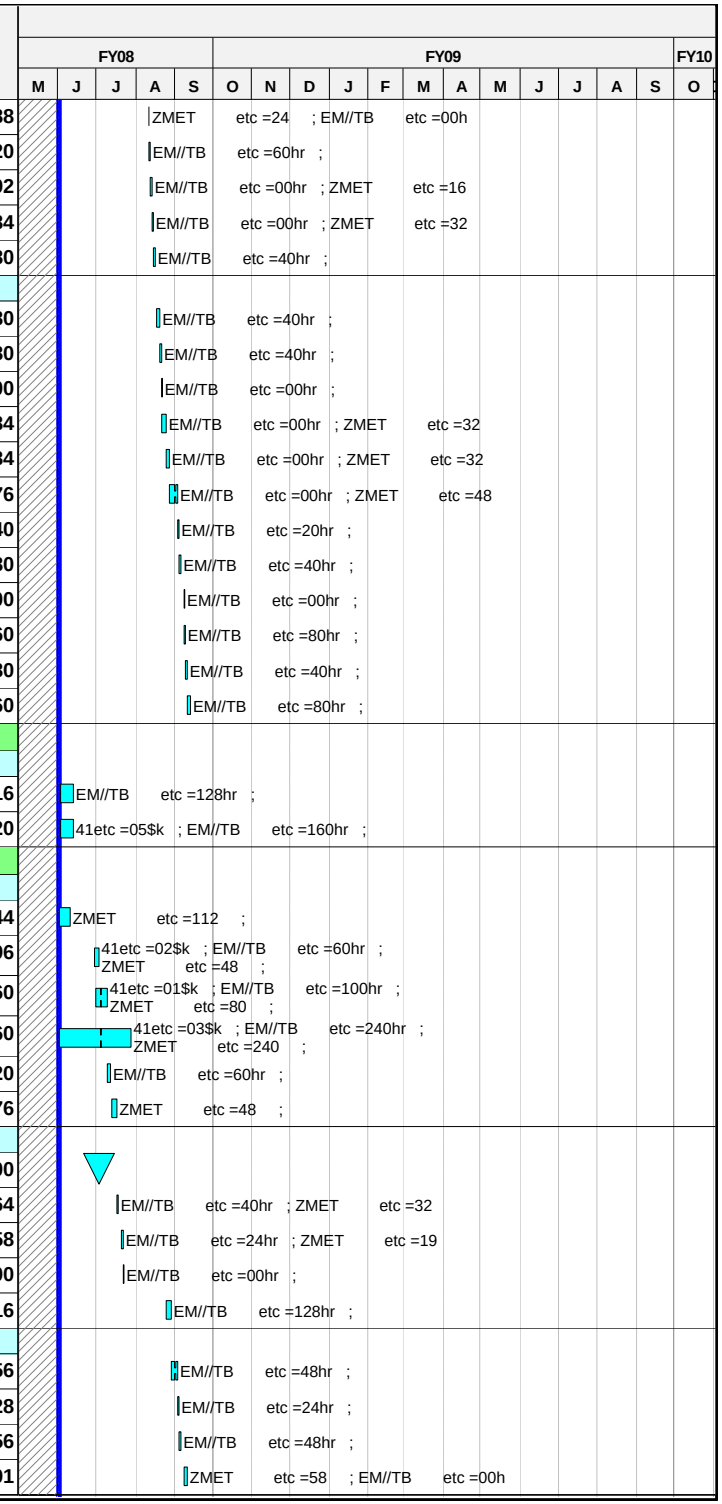
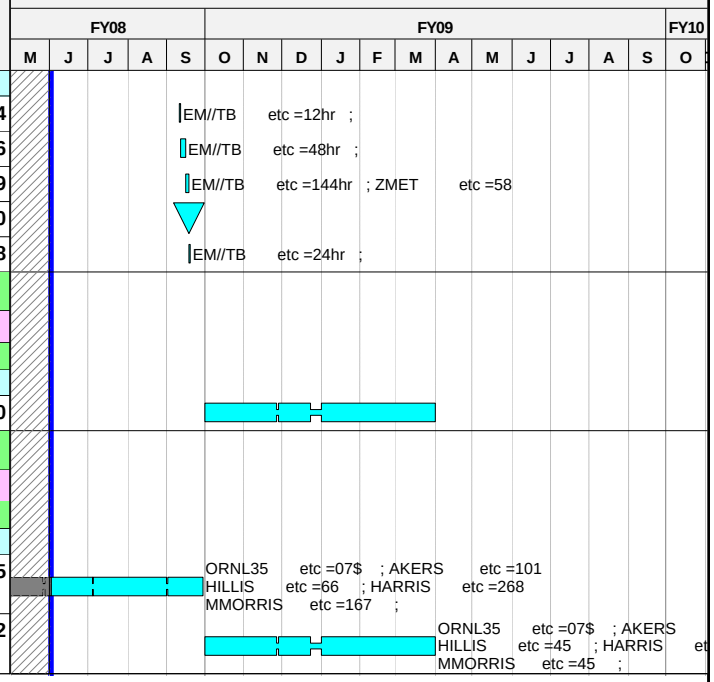
INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
X	D	2-1-7.29	Torque50% of final value.	1	25JUN08	25JUN08		947.64
X	D	2-1-7.30	Measure position of all monuments	1	26JUN08	26JUN08		3,351.46
X	D	2-1-7.301	Fuji paper, & examine load sharing. back office	2	27JUN08	30JUN08		8,259.17
X	D	2-1-7.302	Install new shims & Fuji paper. Lower & reposit	3	01JUL08	03JUL08		5,685.84
X	D	2-1-7.303	Install shims without Fuji paper, studs & torqu	2	07JUL08	08JUL08		3,790.56
X	D	2-1-7.31	Adjust shims locally. Re-torque all studs50%.	2	09JUL08	10JUL08		3,790.56
X	D	2-1-7.32	Install bushing. Replace nut & tighten back50%	3	11JUL08	15JUL08		5,685.84
X	D	2-1-7.33	After super bolt tightening, measure position	2	16JUL08	17JUL08		3,351.46
X	D	2-1-7.34	Tighten all boltsir final torque.	1	17JUL08	17JUL08		1,895.28
X	D	2-1-7.35	After tightening hardware, meas position of monu	1	18JUL08	18JUL08		3,351.46
X	D	2-1-7.36	Weld B / C nose region solenoid side	3	21JUL08	23JUL08		5,685.84
X	D	2-1-7.37	Measure positions of all monuments	1	24JUL08	24JUL08		2,234.30
X	D	2-1-7.38	Back office of above results & INSTALL wing supp	2	25JUL08	28JUL08		4,468.61
X	D	2-1-7.39	Fill all lose bushings with Stycast 2850FT	2	29JUL08	30JUL08		3,790.56
Stycast shim bags & final measurements								
X	D	2-1-8.01	Fill all wing bladders & cure	2	31JUL08	01AUG08		3,790.56
X	D	2-1-11.01	Measure tooling balls on all coils.	2	04AUG08	05AUG08		4,468.61
X	D	2-1-11.02	Install or identify three primary fiducials	2	06AUG08	07AUG08		4,468.61
X	D	2-1-11.03	Scan "B" flange Type-C coil & interfacing base	3	08AUG08	12AUG08		6,702.91
X	D	2-1-11.04	Measure bolt length on all tension fasteners	1	13AUG08	13AUG08		1,895.28
X	D	2-1-11.05	Perform Electrical Megger test on each coil	2	14AUG08	15AUG08		3,790.56
X	D	2-1-11.06	Mark part for identification	0	18AUG08	15AUG08		0.00
X	D	2-1-11.07	Install lift support beams	2	18AUG08	19AUG08		7,581.12
X	D	2-1-11.08	Remove from stand & measure weight of completed	1	20AUG08	20AUG08		3,790.56
X	D	2-1-11.09	Move to holding area.	2	21AUG08	22AUG08		7,581.12
X	D	S21-11.07M	Complete 1st MCHP Assy (Sta 2)	0		22AUG08		0.00
X	D	2-1-11.10	Lift upper wedge & reinstall & grout at Assembly	10	25AUG08	08SEP08		18,952.80
Station 2 MC subassy A2B2C2								
A-B MC Assembly								
X	D	2-2-6.26	Torque50% of final value.	1	02JUN08	02JUN08		789.70
X	D	2-2-6.27	Measure position of all monuments	1	03JUN08	03JUN08		2,792.88
X	D	2-2-6.28	Adjust shims locally. Re-torque all studs50%.	1	04JUN08	04JUN08		10,323.96
X	D	2-2-6.29	Install bushing. Replace nut & tighten back 50%	1	05JUN08	05JUN08		4,738.20
X	D	2-2-6.30	After super bolt tightening, measure position	1	06JUN08	06JUN08		2,792.88
X	D	2-2-6.31	Tighten all boltsir final torque.	1	09JUN08	09JUN08		1,579.40
X	D	2-2-6.32	After tightening hardware, measure position	1	10JUN08	10JUN08		2,792.88
X	D	2-2-6.33	Weld A / B nose region solenoid side	1	11JUN08	11JUN08		10,323.96
X	D	2-2-6.34	Measure positions of all monuments	1	12JUN08	12JUN08		1,861.92
X	D	2-2-6.35	Review with Back Office. INSTALL wing supports	1	13JUN08	13JUN08		6,882.64
X	D	2-2-6.36	Identify, a set of monuments moved	0	16JUN08	13JUN08		0.00



INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
X	D	2-2-6.37	Fill all loose bushings with Stycast 2850FT	1	16JUN08	16JUN08		3,158.80
X	D	2-2-6.38	Scan "B" flange (datum "E") of "B" coil,	1	17JUN08	17JUN08		1,861.92
X	D	2-2-6.39	define all B/C flange shim thickness.	1	18JUN08	18JUN08		2,369.10
AB-C MC Assembly								
X	D	2-2-7.01	lift (A-B) coil, along with fixture, onto anot	1	19JUN08	19JUN08		9,476.40
X	D	2-2-7.02	Select a subset of monuments for initial alignm	1	20JUN08	20JUN08		1,861.92
X	D	2-2-7.03	Align set of monuments selected in 7.02.	1	23JUN08	23JUN08		1,861.92
X	D	2-2-7.04	Establish a set of global monuments	1	24JUN08	24JUN08		1,861.92
X	D	2-2-7.05	Mark nose shim locations & puck locations.	1	25JUN08	25JUN08		1,579.40
X	D	2-2-7.06	Place initial set shims (4-8) on Type-B	0	26JUN08	25JUN08		0.00
X	D	2-2-7.08	Lower mating "C" coil into position.	1	01JUL08	01JUL08		3,158.80
X	D	2-2-7.081	Perform alignment "C" coil tooling balls	1	02JUL08	02JUL08		1,861.92
X	D	2-2-7.09	Install jack screws & dial indicators	1	03JUL08	03JUL08		1,579.40
X	D	2-2-7.10	Position coil within ±.002"	1	07JUL08	07JUL08		1,579.40
X	D	2-2-7.11	Install shims studs, & "wiggle"	1	08JUL08	08JUL08		2,369.10
X	D	2-2-7.12	Torque50% of final value.	1	09JUL08	09JUL08		789.70
X	D	2-2-7.13	Measure position of all monuments	1	10JUL08	10JUL08		2,792.88
X	D	2-2-7.14	Measure shim puck height	1	11JUL08	11JUL08		1,579.40
X	D	2-2-7.15	remove puck locating rings & install all nose s	1	14JUL08	14JUL08		4,738.20
X	D	2-2-7.16	"Lightly" tack weld nose flex shims	1	15JUL08	15JUL08		789.70
X	D	2-2-7.17	remove "C" coil & place it on a separate fixtur	1	16JUL08	16JUL08		3,158.80
X	D	2-2-7.18	Recheck part alignment & weld all Type-B flex s	1	17JUL08	17JUL08		5,585.76
X	D	2-2-7.19	After welding "B" coil nose shims recheck align	1	18JUL08	18JUL08		1,861.92
X	D	2-2-7.20	Back office assessment of part after weld	1	21JUL08	21JUL08		3,723.84
X	D	2-2-7.21	Measure "C" fiducials	1	21JUL08	21JUL08		1,861.92
X	D	2-2-7.22	Weld all Type-C (A-flange) flex shims plasma sid	1	22JUL08	22JUL08		3,158.80
X	D	2-2-7.23	After welding determine metrology acceptance	1	23JUL08	23JUL08		1,861.92
X	D	2-2-7.24	Back office assessment	1	24JUL08	24JUL08		3,723.84
X	D	2-2-7.25	Remove shims for alignment mating coil	0	25JUL08	24JUL08		0.00
X	D	2-2-7.07	Place unfilled shim bags in wing areas	1	25JUL08	25JUL08		1,579.40
X	D	2-2-7.26	Lower mating "C" coil into position.	1	28JUL08	28JUL08		3,158.80
X	D	2-2-7.261	alignment "C" coil tooling balls	1	29JUL08	29JUL08		1,861.92
X	D	2-2-7.27	position coil accurately in x, y, & z directio	1	30JUL08	30JUL08		1,579.40
X	D	2-2-7.28	Install shims;studs,, & "wiggle"	1	31JUL08	31JUL08		2,369.10
X	D	2-2-7.29	Torque50% of final value.	1	01AUG08	01AUG08		789.70
X	D	2-2-7.30	Measure position of all monuments	1	04AUG08	04AUG08		2,792.88
X	D	2-2-7.31	Adjust shims locally. Re-torque all studs50%.	1	05AUG08	05AUG08		3,158.80
X	D	2-2-7.32	Install bushing. Replace nut & tighten back50%	1	06AUG08	06AUG08		4,738.20
X	D	2-2-7.33	After super bolt tightening, measure position	1	07AUG08	07AUG08		2,792.88
X	D	2-2-7.34	Tighten all bolts to final torque.	1	08AUG08	08AUG08		1,579.40



INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
X	D	2-2-7.35	After tightening hardware, meas position of monu	1	11AUG08	11AUG08		2,792.88
X	D	2-2-7.36	Weld B / C nose region solenoid side	1	12AUG08	12AUG08		4,738.20
X	D	2-2-7.37	Measure positions of all monuments	1	13AUG08	13AUG08		1,861.92
X	D	2-2-7.38	Back office of above results & INSTALL wing supp	1	14AUG08	14AUG08		3,723.84
X	D	2-2-7.39	Fill all lose bushings with Stycast 2850FT	1	15AUG08	15AUG08		3,158.80
Stycast shim bags & final measurements								
X	D	2-2-8.01	Fill all wing bladders & cure	2	18AUG08	19AUG08		3,158.80
X	D	2-2-8.02	Inject stycast in all shim spaces	2	20AUG08	21AUG08		3,158.80
X	D	2-2-10.0	Complete local service & interface details	0	22AUG08	21AUG08		0.00
X	D	2-2-11.01	Measure tooling balls on all coils.	2	22AUG08	25AUG08		3,723.84
X	D	2-2-11.02	Install or identify three primary fiducials	2	26AUG08	27AUG08		3,723.84
X	D	2-2-11.03	Scan "B" flange Type-C coil & interfacing base	3	28AUG08	02SEP08		5,585.76
X	D	2-2-11.04	Measure bolt length on all tension fasteners	1	03SEP08	03SEP08		1,579.40
X	D	2-2-11.05	Perform Electrical Megger test on each coil	2	04SEP08	05SEP08		3,158.80
X	D	2-2-11.06	Mark part for identification	0	08SEP08	05SEP08		0.00
X	D	2-2-11.07	Install lift support beams	2	08SEP08	09SEP08		6,317.60
X	D	2-2-11.08	Remove from stand & measure weight of completed	1	10SEP08	10SEP08		3,158.80
X	D	2-2-11.09	Move to holding area.	2	11SEP08	12SEP08		6,317.60
Station 3 Setup/Preparations/General								
Misc Prep activities								
X	D	R1810-3112	Load Test 3 legged actuator lift fixtur	8	03JUN08*	12JUN08		10,108.16
X	D	R1810-3113	Procure wire rope slings & 6 17ton shackles	8	03JUN08*	12JUN08		18,845.20
Station 3-Assemble Mod Coils and VVSA-FP#1								
Set-up and Prep								
X	D	3-1-1.01	transfer CAD models	7	02JUN08*	10JUN08		13,033.44
X	D	3-1-1.02	Install Station 3 site monuments	3	30JUN08	02JUL08		12,807.96
X	D	3-1-1.03	Install floor mounted tracks and the VV base sup	5	01JUL08	08JUL08		18,448.60
X	D	3-1-1.021	Design, fabricate and calibrate photogrammetry	40	02JUN08	28JUL08		50,607.60
X	D	3-1-1.05	Install the MCHP right support stand;	3	09JUL08	11JUL08		4,738.20
X	D	3-1-1.07	Reconfirm Leica position	3	14JUL08	16JUL08		5,585.76
Install Laser Screen								
X	D	R1810-2109	Begin Station 3	0	03JUL08			0.00
X	D	3-1-6.02	Place all laser screens	2	17JUL08	18JUL08		6,882.64
X	D	3-1-6.03	Turn each lasers on & measure each laser source	1	21JUL08	21JUL08		4,129.58
X	D	3-1-6.04	Print path on milar paper	0	22JUL08	21JUL08		0.00
X	D	3-1-6NEW	Dry-run MCHP thru laser screen path without VVSA	4	25AUG08	28AUG08		10,108.16
Install Vacuum Vessel								
X	D	3-1-7.02	Install VV NBI port support stand.	2	29AUG08	02SEP08		3,790.56
X	D	3-1-7.03	Install VVSA to base support and make connection	1	03SEP08	03SEP08		1,895.28
X	D	3-1-7.04	take tooling ball readings and secure VVSA	2	04SEP08	05SEP08		3,790.56
X	D	3-1-7.05	Scan VV surface and compare data	3	08SEP08	10SEP08		6,702.91



INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days	Forecast Start	Forecast Finish	% Cmplt	ETC
Trial fit MCHP over VV								
X	D	3-1-8.01	Install any bumper protection components on the	1	11SEP08	11SEP08		947.64
X	D	3-1-8.03	Install MCHP lift fixture, disengage leveler	2	12SEP08	15SEP08		3,790.56
X	D	3-1-8.05	Move right MCHP over the VV	3	16SEP08	18SEP08		18,074.59
X	D	3-1-8.05M	MCHP test fit over VVSA Complete	0		18SEP08		0.00
X	D	3-1-6.05	Disengage the right MCHP & position on floor	1	19SEP08	19SEP08		1,895.28
Hutch Neilson								
Job: 8222 - Manuscripts and Papers - NEILSON								
Prepare Closeout report								
X	H	8222-900	Manuscripts, journal and papers	121*	01OCT08*	31MAR09		283,748.00
Harris								
Job: 8102 - NCSX MIE Management ORNL-HARRIS								
X	R	810.105XX	Project Management Office ORNL FY08 (LOE)	169*	01FEB08A	29SEP08	LOE	106,399.85
X	R	810.105Z	Project Management Office ORNL FY09 (LOE)	121*	01OCT08*	31MAR09	LOE	51,786.52